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# DATASHEET

Bisindolylmaleimide II

## Product overview

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|---|---|
| **Name** | Bisindolylmaleimide II |
| **Cat No** | HB0135 |
| **Biological action** | Inhibitor |
| **Purity** | >97% |
| **Description** | Potent PKC inhibitor |

## Biological Data

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| **Biological description** | Potent protein kinase C (PKC) inhibitor ($IC_{50}$ = 0.10 µM). Displays less activity at protein kinase A (PKA) and pyruvate kinase (PK) ($IC_{50}$ values are 2.0 and 0.70 µM respectively).Also β1.3 subunit of $K_v$ 1.5 channel inhibitor ($IC_{50}$ = 12.4 µM) and non-competitive nicotonic cholinergic receptor antagonist (approx $IC_{50}$ = 0.031 µM). |

## Solubility & Handling

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| **Storage instructions** | -20°C |
| **Solubility overview** | Soluble in DMSO (100mM) |
| **Important** | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

## Chemical Data

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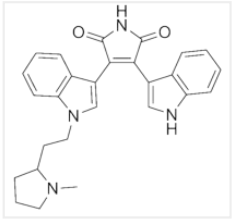
| **Chemical name** | 3-(1*H*-Indol-3-yl)-4-[1-[2-(1-methyl -2-pyrrolidinyl)ethyl]-1*H*-indol-3-yl]-1*H*-pyrrole-2 ,5-dione |
| **Molecular Weight** | 438.52 |
| **Chemical structure** |  |
| **Molecular Formula** | $C_{27}H_{26}N_4O_2$ |
| **CAS Number** | 137592-45-1 |
| **PubChem identifier** | 2397 |
| **SMILES** | CN1CCCC1CCN2C=C(C3=CC=CC=C32)C4=C(C(=O)NC4=O)C5=CNC6=CC=CC=C65 |
| **InChiKey** | LBFDERUQORUFIN-UHFFFAOYSA-N |

## References

**PKC inhibition results in a $K_v$ 1.5 + $K_v$ β1.3 pharmacology closer to $K_v$ 1.5 channels.**

Macías A *et al* (2014) Br J Pharmacol

**PubMedID** 24946104

**Chromaffin cell catecholamine secretion: bisindolylmaleimide compounds exhibit novel and potent antagonist effects at the nicotinic cholinergic receptor in pheochromocytoma cells.**

Mahata M *et al* (2002) Mol Pharmacol 61(6)
**PubMedID** 12021395

**The bisindolylmaleimide GF 109203X is a potent and selective inhibitor of protein kinase C.**

Toullec D *et al* (1991) J Biol Chem 266(24)
**PubMedID** 1874734